TDSTOT:S6082E03T

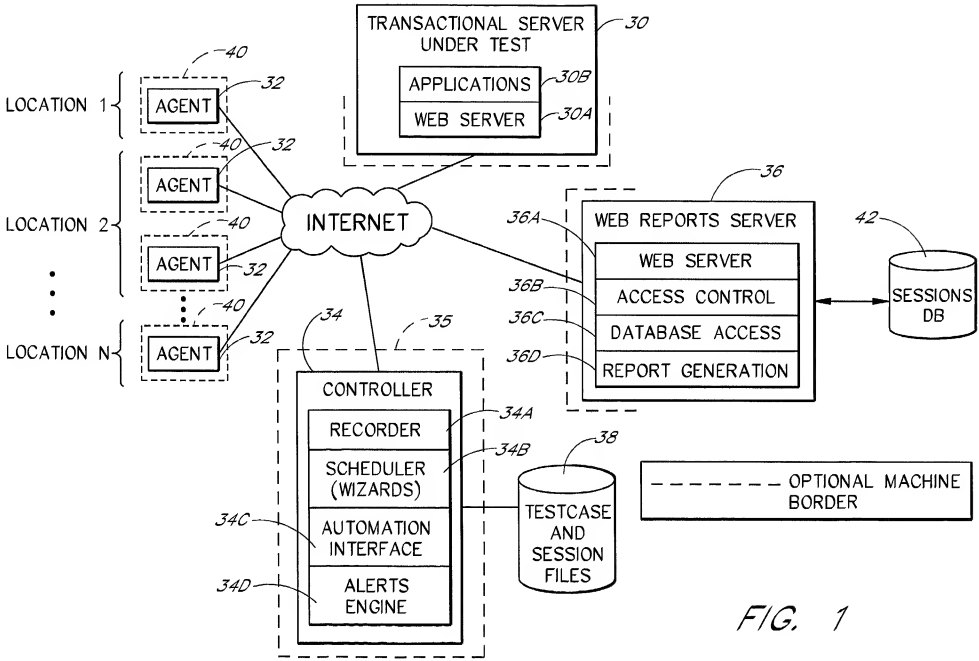

FIG. 1

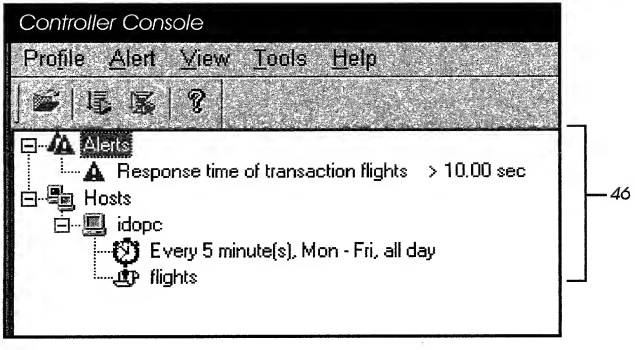
Controller Console
Profile Alert View Tools Help
Alerts
Response time of transaction flights > 10.00 sec
Hosts
idopc
Every 5 minute(s), Mon - Fri, all day
flights
46

FIG. 2

Web SLM Wizard (Step 1 of 6)
The Web SLM wizard will guide you through the process of designing your monitoring session.
Session name:
MonitorALL
< Back
Next >
Cancel
Help

FIG. 3

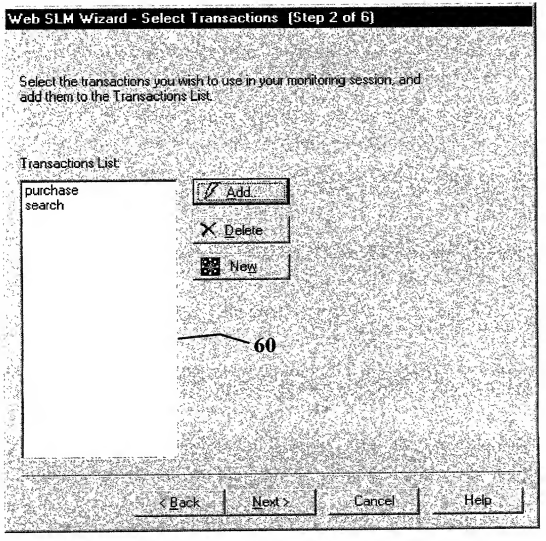
Web SLM Wizard - Select Transactions (Step 2 of 6)
Select the transactions you wish to use in your monitoring session, and add them to the Transactions List.
Transactions List:
purchase
search
Add...
Delete
New
60
< Back
Next >
Cancel
Help

FIG. 4

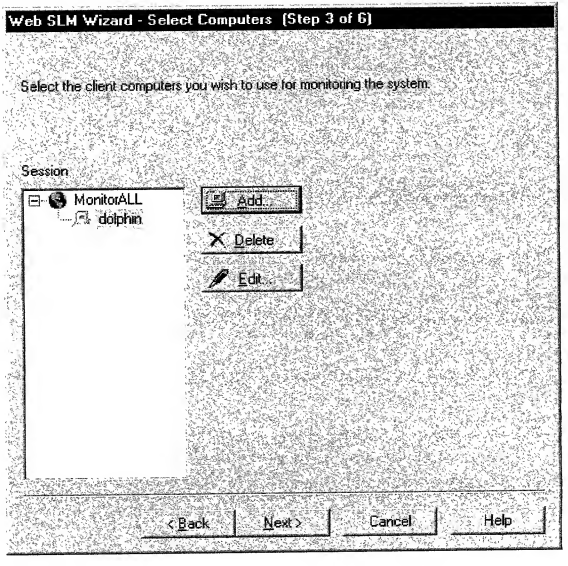
Web SLM Wizard - Select Computers (Step 3 of 6)
Select the client computers you wish to use for monitoring the system.
Session
MonitorALL
dolphin
Add...
Delete
Edit...
< Back
Next >
Cancel
Help
46

FIG. 5

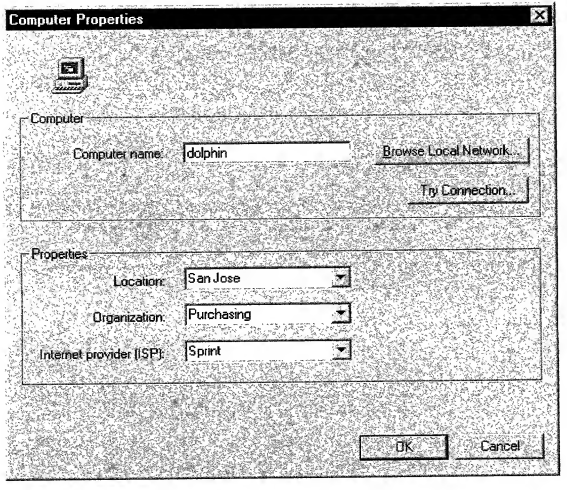
Computer Properties
Computer
Computer name:
dolphin
Browse Local Network...
Try Connection...
Properties
Location:
San Jose
Organization:
Purchasing
Internet provider (ISP):
Sprint
OK
Cancel

FIG. 6

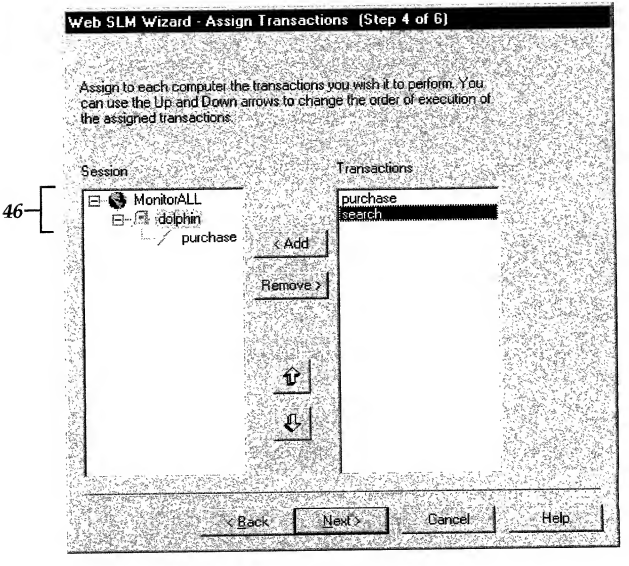
Web SLM Wizard - Assign Transactions (Step 4 of 6)
Assign to each computer the transactions you wish it to perform. You can use the Up and Down arrows to change the order of execution of the assigned transactions.
Session
Transactions
MonitorALL
dolphin
purchase
purchase
search
< Add
Remove >
< Back
Next >
Cancel
Help
46

FIG. 7

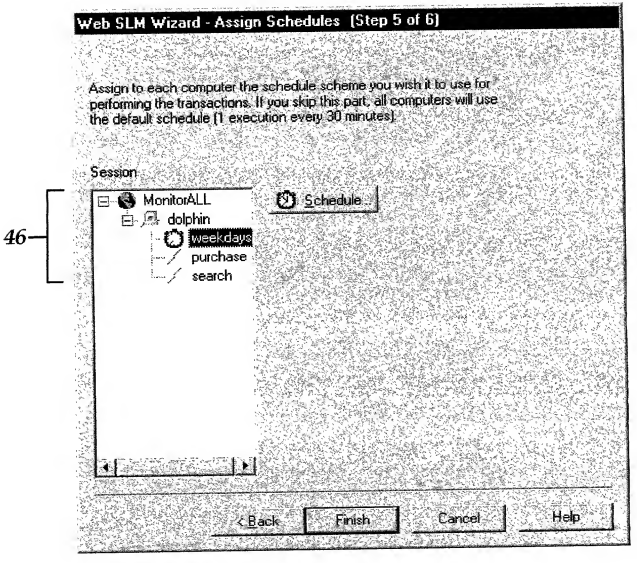
Web SLM Wizard - Assign Schedules (Step 5 of 6)
Assign to each computer the schedule scheme you wish it to use for performing the transactions. If you skip this part, all computers will use the default schedule (1 execution every 30 minutes).
Session
MonitorALL
dolphin
weekdays
purchase
search
Schedule...
46
< Back
Finish
Cancel
Help

FIG. 8

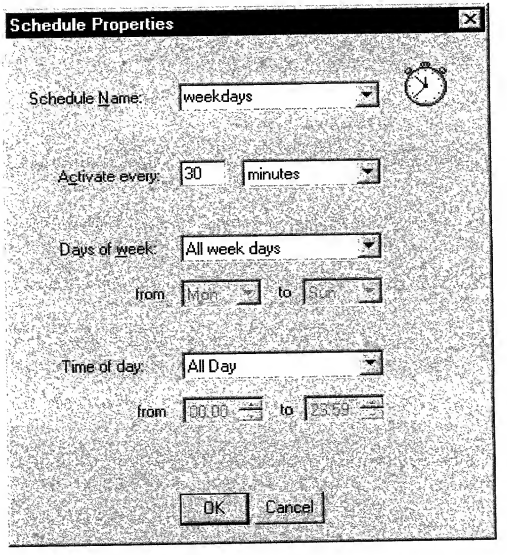
Schedule Properties
Schedule Name:
weekdays
Activate every:
30
minutes
Days of week:
All week days
from
Mon
to
Sun
Time of day:
All Day
from
00:00
to
23:59
OK
Cancel

FIG. 9

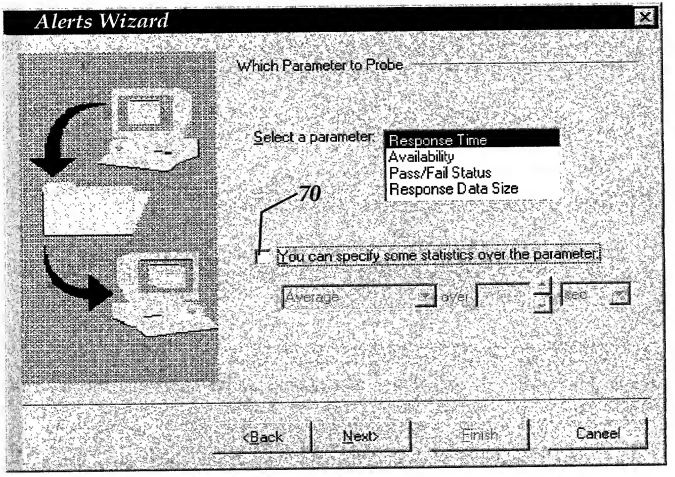
Alerts Wizard
Which Parameter to Probe
Select a parameter:
Response Time
Availability
Pass/Fail Status
Response Data Size
70
You can specify some statistics over the parameter:
Average
over
sec
<Back
Next>
Finish
Cancel

FIG. 10

PATENT DOCUMENT

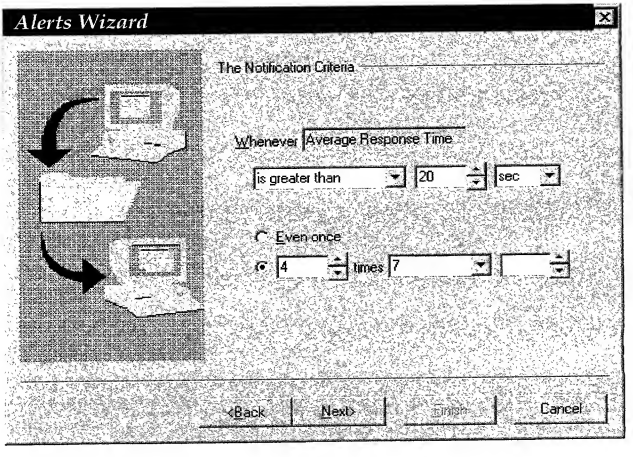

FIG. 11

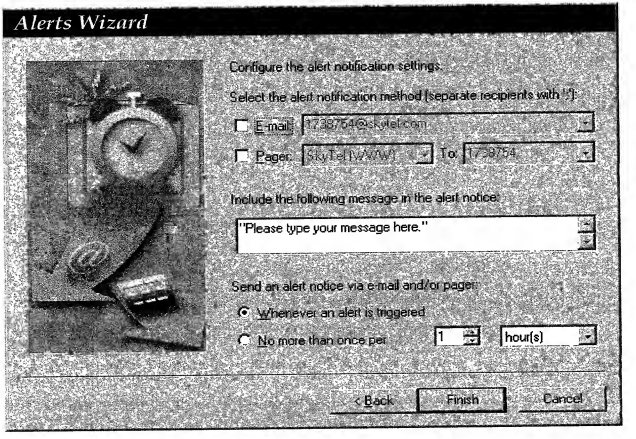
Alerts Wizard
Configure the alert notification settings.
Select the alert notification method (separate recipients with ';'):
E-mail:
Pager:
To:
Include the following message in the alert notice:
"Please type your message here."
Send an alert notice via e-mail and/or pager:
Whenever an alert is triggered
No more than once per
1
hour(s)
< Back
Finish
Cancel

FIG. 12

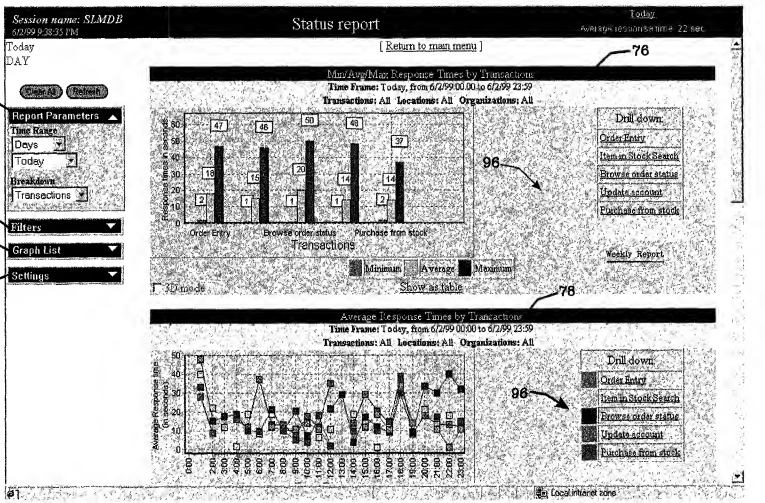
Session name: SLMDB
6/2/99 9:38:35 PM
Status report
Today
Average response time = 22 sec.
Today
DAY
[Return to main menu]
76
Min/Avg/Max Response Times by Transactions
Time Frame: Today, from 6/2/99 00:00 to 6/2/99 23:59
Transactions: All Locations: All Organizations: All
Clear All
Refresh
87
Report Parameters
Time Range
Days
Today
Breakdown
Transactions
88
Filters
91
Graph List
92
Settings
Response time in seconds
47
46
50
48
37
18
15
20
14
14
2
1
1
1
2
Order Entry
Browse order status
Purchase from stock
Transactions
Minimum
Average
Maximum
3D mode
Show as table
96
Drill down:
Order Entry
Item in Stock Search
Browse order status
Update account
Purchase from stock
Weekly Report
76
Average Response Times by Transactions
Time Frame: Today, from 6/2/99 00:00 to 6/2/99 23:59
Transactions: All Locations: All Organizations: All
Average Response time (in seconds)
0:00
2:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
96
Drill down:
Order Entry
Item in Stock Search
Browse order status
Update account
Purchase from stock
Local intranet zone

FIG. 13

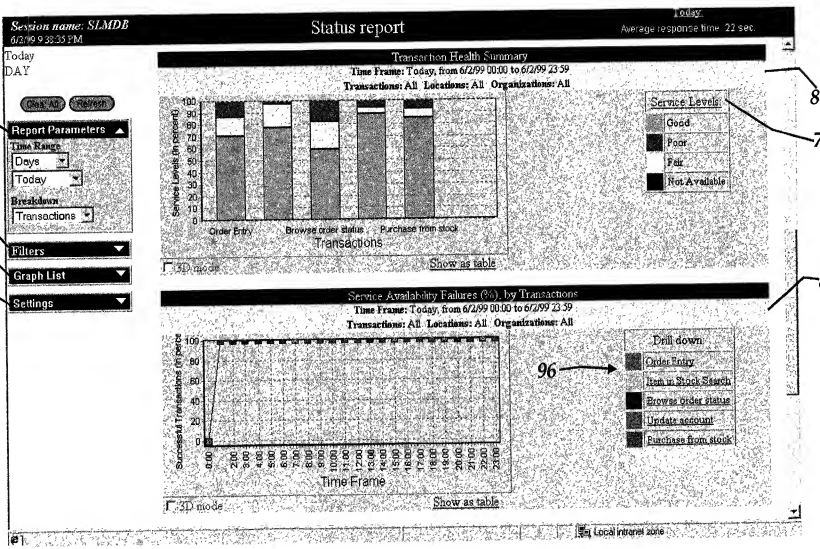
Session name: SLMDB
6/2/99 9:38:35 PM
Status report
Today:
Average response time: 22 sec.
Today
DAY
Clear All
Refresh
Report Parameters
Time Range
Days
Today
Breakdown
Transactions
Filters
Graph List
Settings
Transaction Health Summary
Time Frame: Today, from 6/2/99 00:00 to 6/2/99 23:59
Transactions: All Locations: All Organizations: All
Service Levels (in percent)
Order Entry
Browse order status
Purchase from stock
Transactions
Service Levels
Good
Poor
Fair
Not Available
3D mode
Show as table
Service Availability Failures (%), by Transactions
Time Frame: Today, from 6/2/99 00:00 to 6/2/99 23:59
Transactions: All Locations: All Organizations: All
Successful Transactions (in percent)
Time Frame
Drill down
Order Entry
Item in Stock Search
Browse order status
Update account
Purchase from stock
3D mode
Show as table
Local intranet zone
80
79
87
88
91
92
82
96

FIG. 14

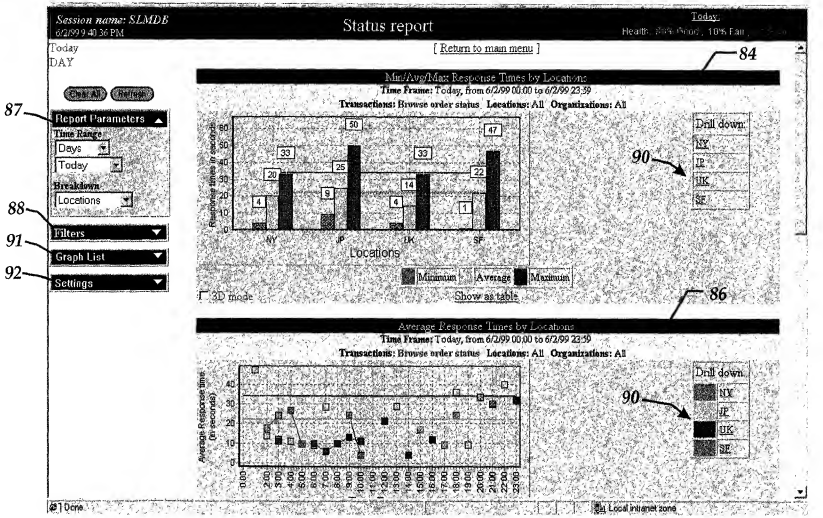
Session name: SLMDB
6/2/99 9:40:36 PM
Status report
Today
Health: 80% Poor, 10% Fair
Today
DAY
[Return to main menu]
84
Clear All
Refresh
87
Report Parameters
Time Range
Days
Today
Breakdown
Locations
88
Filters
91
Graph List
92
Settings
Min/Avg/Max Response Times by Locations
Time Frame: Today, from 6/2/99 00:00 to 6/2/99 23:59
Transactions: Browse order status Locations: All Organizations: All
Response times (in seconds)
50
47
33
33
20
25
22
14
9
4
4
1
NY
JP
UK
SF
Locations
Drill down:
NY
JP
UK
SF
90
Minimum
Average
Maximum
3D mode
Show as table
86
Average Response Times by Locations
Time Frame: Today, from 6/2/99 00:00 to 6/2/99 23:59
Transactions: Browse order status Locations: All Organizations: All
Average Response time (in seconds)
Drill down:
NY
JP
UK
SF
90
Done
Local intranet zone

FIG. 15

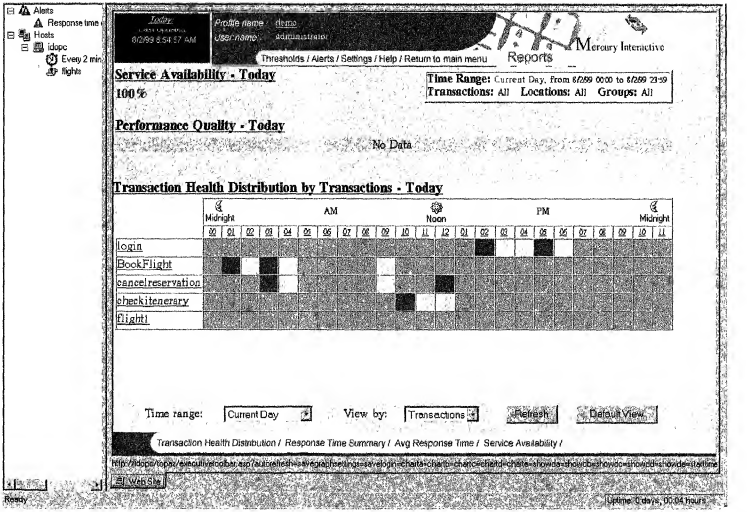
Alerts
Response time
Hosts
idopc
Every 2 min
flights
Today:
6/2/99 8:54:57 AM
Profile name: demo
User name: administrator
Mercury Interactive
Thresholds / Alerts / Settings / Help / Return to main menu
Reports
Service Availability - Today
100 %
Time Range: Current Day, from 6/2/99 0000 to 6/2/99 2359
Transactions: All Locations: All Groups: All
Performance Quality - Today
No Data
Transaction Health Distribution by Transactions - Today
Midnight
AM
Noon
PM
Midnight
00 01 02 03 04 05 06 07 08 09 10 11 12 01 02 03 04 05 06 07 08 09 10 11
login
BookFlight
cancelreservation
checkitenerary
flight1
Time range:
Current Day
View by:
Transactions
Refresh
Default View
Transaction Health Distribution / Response Time Summary / Avg Response Time / Service Availability /
http://idopc/topaz/executivecobar.asp?autorefresh=&graphsettings=&viewtop=&charts=&chart=&changecharts=&charts=&hosts=&hostbar=&hosts=&noend=&hosts=&time
All WAS SM
Ready
Uptime: 0 days, 00:04 hours

FIG. 16

TUSTOT"960080OT

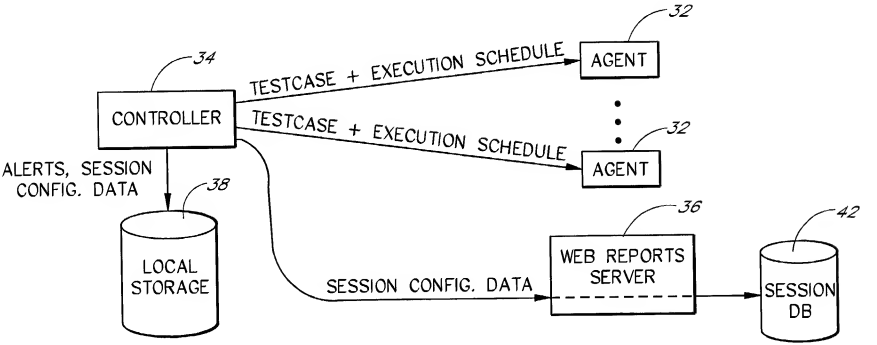

FIG. 17

TOSTOT 050505001

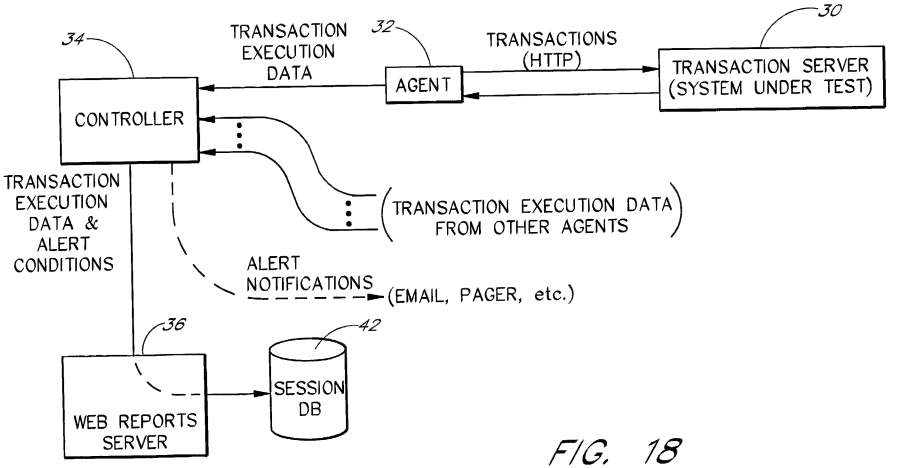

FIG. 18

TOSTOT:050050OT

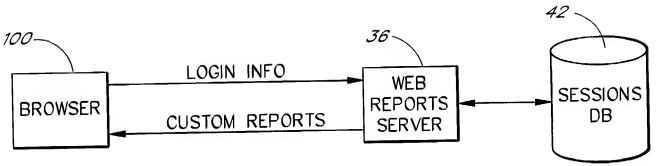

FIG. 19

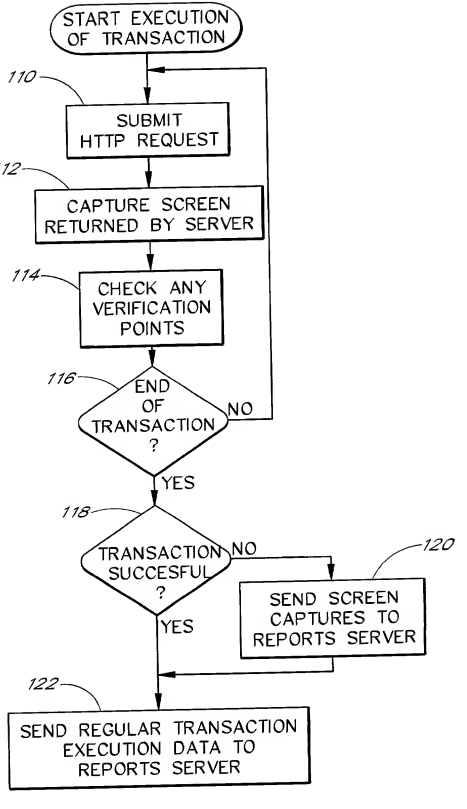
START EXECUTION OF TRANSACTION
110
SUBMIT HTTP REQUEST
112
CAPTURE SCREEN RETURNED BY SERVER
114
CHECK ANY VERIFICATION POINTS
116
END OF TRANSACTION ?
NO
YES
118
TRANSACTION SUCCESFUL ?
NO
120
SEND SCREEN CAPTURES TO REPORTS SERVER
YES
122
SEND REGULAR TRANSACTION EXECUTION DATA TO REPORTS SERVER

FIG. 20

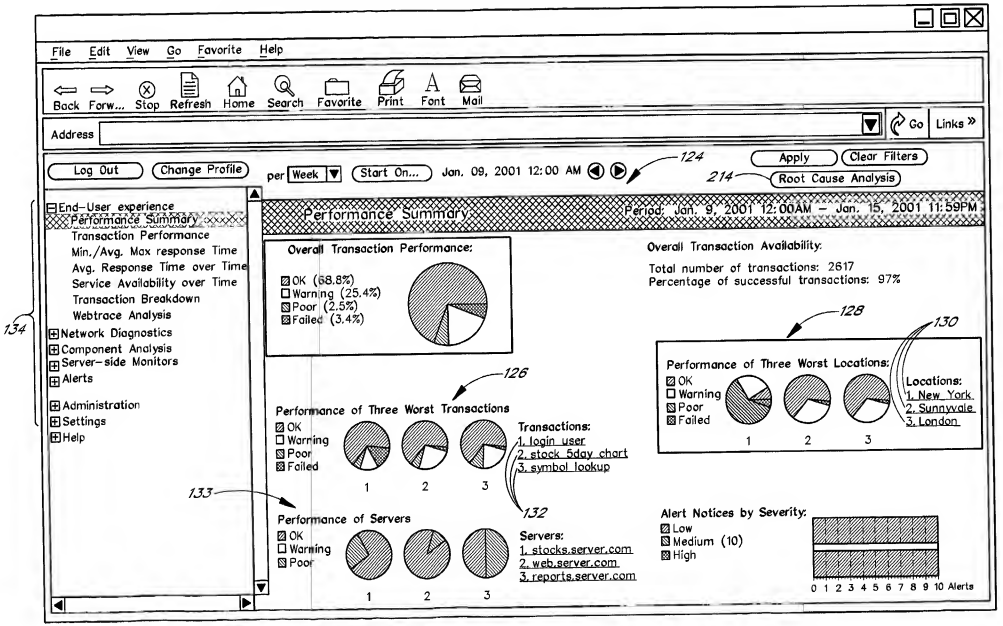
File Edit View Go Favorite Help
Back Forw... Stop Refresh Home Search Favorite Print Font Mail
Address
Go Links »
Log Out
Change Profile
per Week
Start On...
Jan. 09, 2001 12:00 AM
124
Apply
Clear Filters
214
Root Cause Analysis
End-User experience
Performance Summary
Transaction Performance
Min./Avg. Max response Time
Avg. Response Time over Time
Service Availability over Time
Transaction Breakdown
Webtrace Analysis
Network Diagnostics
Component Analysis
Server-side Monitors
Alerts
Administration
Settings
Help
134
Performance Summary
Period: Jan. 9, 2001 12:00AM - Jan. 15, 2001 11:59PM
Overall Transaction Performance:
OK (68.8%)
Warning (25.4%)
Poor (2.5%)
Failed (3.4%)
Overall Transaction Availability:
Total number of transactions: 2617
Percentage of successful transactions: 97%
128
130
Performance of Three Worst Locations:
OK
Warning
Poor
Failed
1 2 3
Locations:
1. New York
2. Sunnyvale
3. London
126
Performance of Three Worst Transactions
OK
Warning
Poor
Failed
1 2 3
Transactions:
1. login user
2. stock 5day chart
3. symbol lookup
133
132
Performance of Servers
OK
Warning
Poor
1 2 3
Servers:
1. stocks.server.com
2. web.server.com
3. reports.server.com
Alert Notices by Severity:
Low
Medium (10)
High
0 1 2 3 4 5 6 7 8 9 10 Alerts

FIG. 21

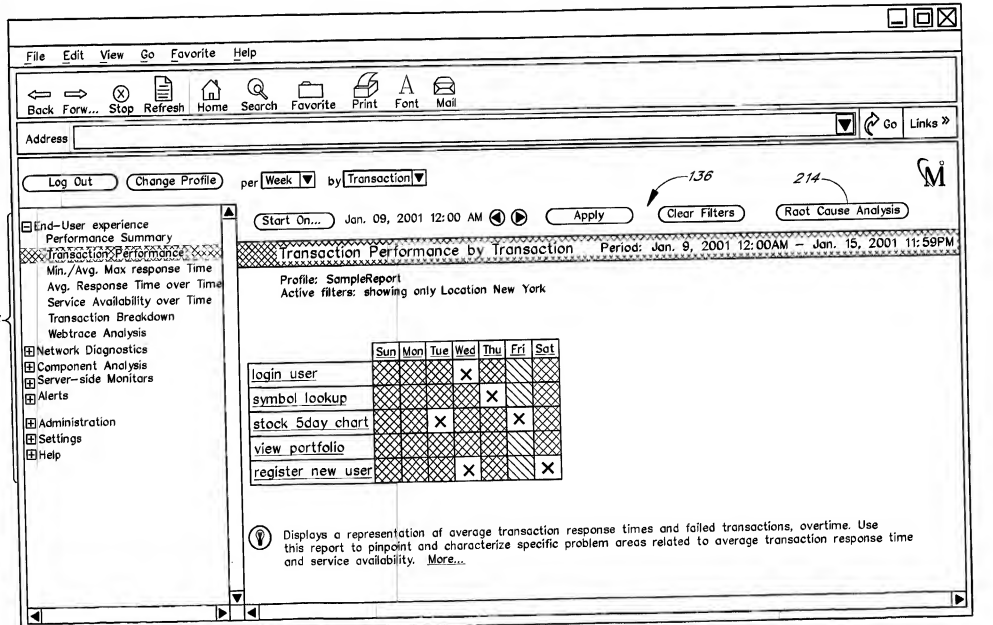
File Edit View Go Favorite Help
Back Forw... Stop Refresh Home Search Favorite Print Font Mail
Address
Go Links »
Log Out
Change Profile
per Week
by Transaction
136
214
Start On...
Jan. 09, 2001 12:00 AM
Apply
Clear Filters
Root Cause Analysis
End-User experience
Performance Summary
Transaction Performance
Min./Avg. Max response Time
Avg. Response Time over Time
Service Availability over Time
Transaction Breakdown
Webtrace Analysis
Network Diagnostics
Component Analysis
Server-side Monitors
Alerts
Administration
Settings
Help
134
Transaction Performance by Transaction
Period: Jan. 9, 2001 12:00AM – Jan. 15, 2001 11:59PM
Profile: SampleReport
Active filters: showing only Location New York
Sun Mon Tue Wed Thu Fri Sat
login user
symbol lookup
stock 5day chart
view portfolio
register new user
Displays a representation of average transaction response times and failed transactions, overtime. Use this report to pinpoint and characterize specific problem areas related to average transaction response time and service availability. More...

FIG. 22

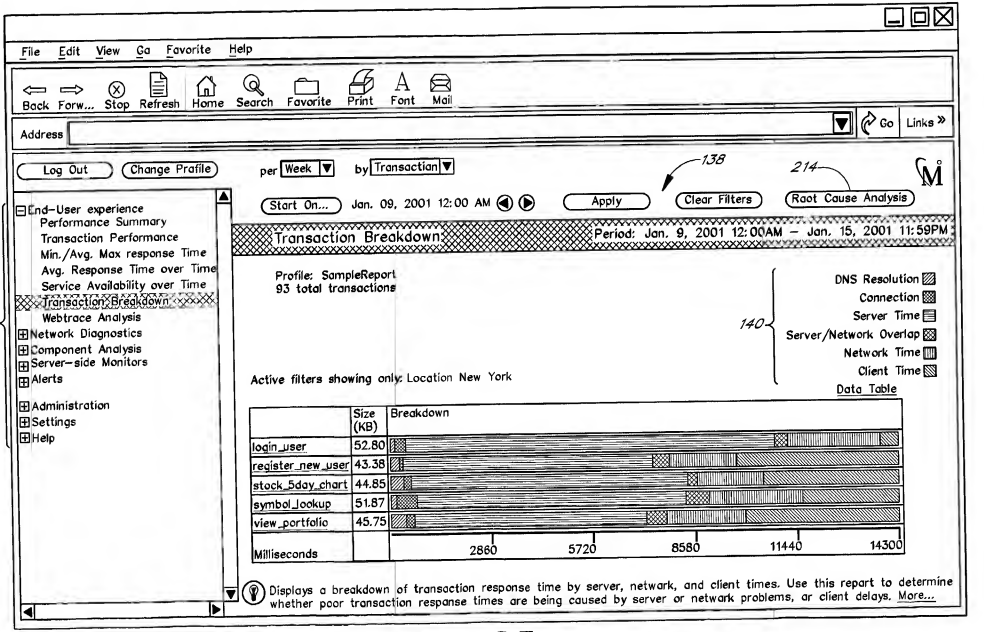
File Edit View Go Favorite Help
Back Forw... Stop Refresh Home Search Favorite Print Font Mail
Address
Go
Links »
Log Out
Change Profile
per Week
by Transaction
138
214
Start On...
Jan. 09, 2001 12:00 AM
Apply
Clear Filters
Root Cause Analysis
End-User experience
Performance Summary
Transaction Performance
Min./Avg. Max response Time
Avg. Response Time over Time
Service Availability over Time
Transaction Breakdown
Webtrace Analysis
Network Diagnostics
Component Analysis
Server-side Monitors
Alerts
Administration
Settings
Help
134
Transaction Breakdown
Period: Jan. 9, 2001 12:00AM – Jan. 15, 2001 11:59PM
Profile: SampleReport
93 total transactions
DNS Resolution
Connection
Server Time
Server/Network Overlap
Network Time
Client Time
140
Active filters showing only: Location New York
Data Table
Size (KB)
Breakdown
login_user 52.80
register_new_user 43.38
stock_5day_chart 44.85
symbol_lookup 51.87
view_portfolio 45.75
Milliseconds
2860
5720
8580
11440
14300
Displays a breakdown of transaction response time by server, network, and client times. Use this report to determine whether poor transaction response times are being caused by server or network problems, or client delays. More...

FIG. 23

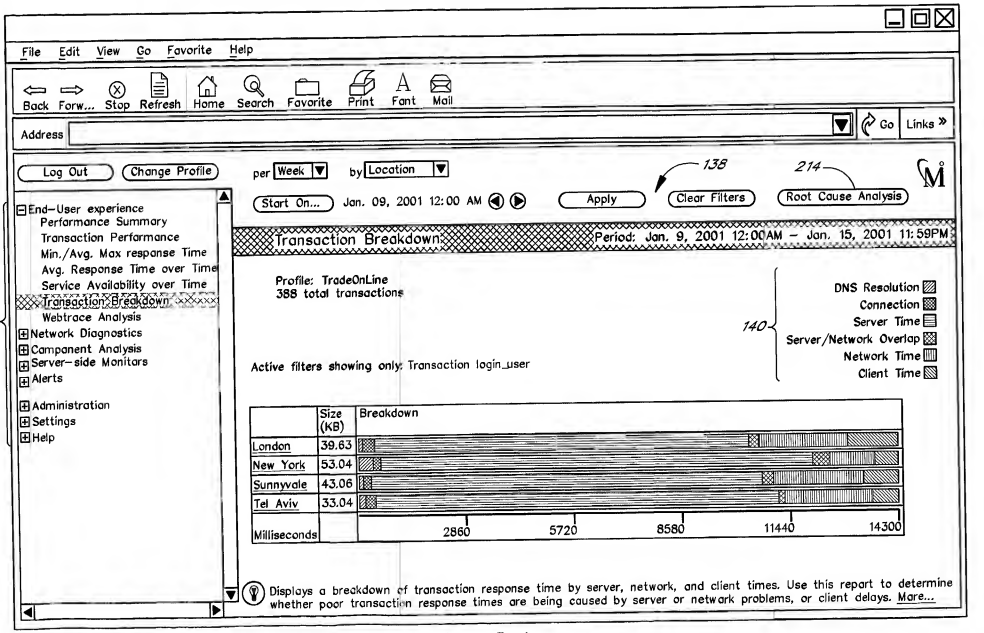
File Edit View Go Favorite Help
Back Forw... Stop Refresh Home Search Favorite Print Font Mail
Address
Go
Links »
Log Out
Change Profile
per Week
by Location
138
214
Start On...
Jan. 09, 2001 12:00 AM
Apply
Clear Filters
Root Cause Analysis
End-User experience
Performance Summary
Transaction Performance
Min./Avg. Max response Time
Avg. Response Time over Time
Service Availability over Time
Transaction Breakdown
Webtrace Analysis
Network Diagnostics
Component Analysis
Server-side Monitors
Alerts
Administration
Settings
Help
134
Transaction Breakdown
Period: Jan. 9, 2001 12:00AM – Jan. 15, 2001 11:59PM
Profile: TradeOnLine
388 total transactions
DNS Resolution
Connection
Server Time
Server/Network Overlap
Network Time
Client Time
140
Active filters showing only: Transaction login_user
Size (KB)
Breakdown
London 39.63
New York 53.04
Sunnyvale 43.06
Tel Aviv 33.04
Milliseconds
2860
5720
8580
11440
14300
Displays a breakdown of transaction response time by server, network, and client times. Use this report to determine whether poor transaction response times are being caused by server or network problems, or client delays. More...

FIG. 24

Microsoft Exhibit 1008, page 0027

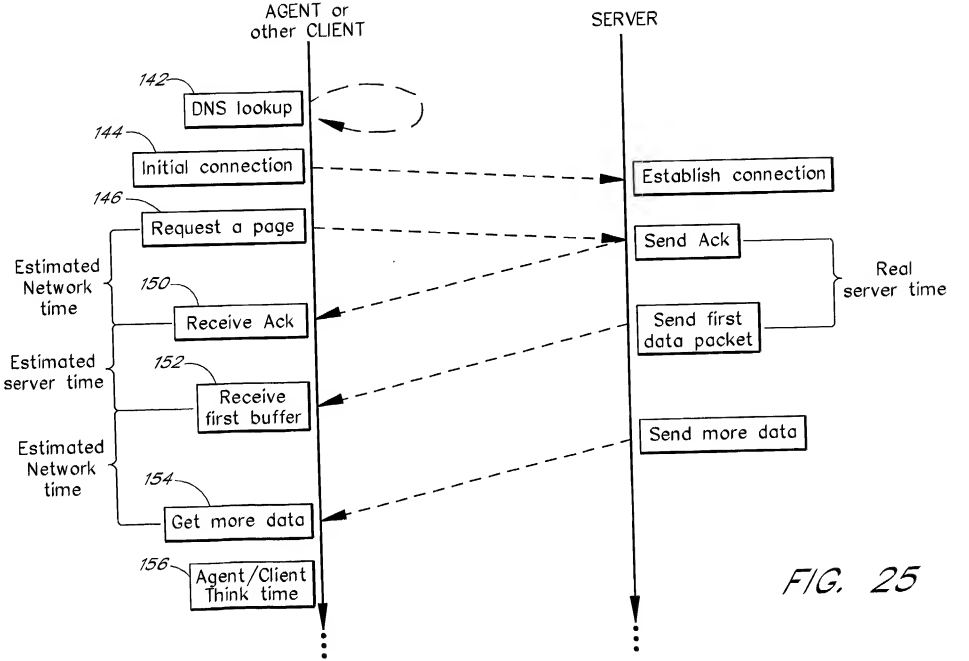

FIG. 25

PCT/US2000/000000

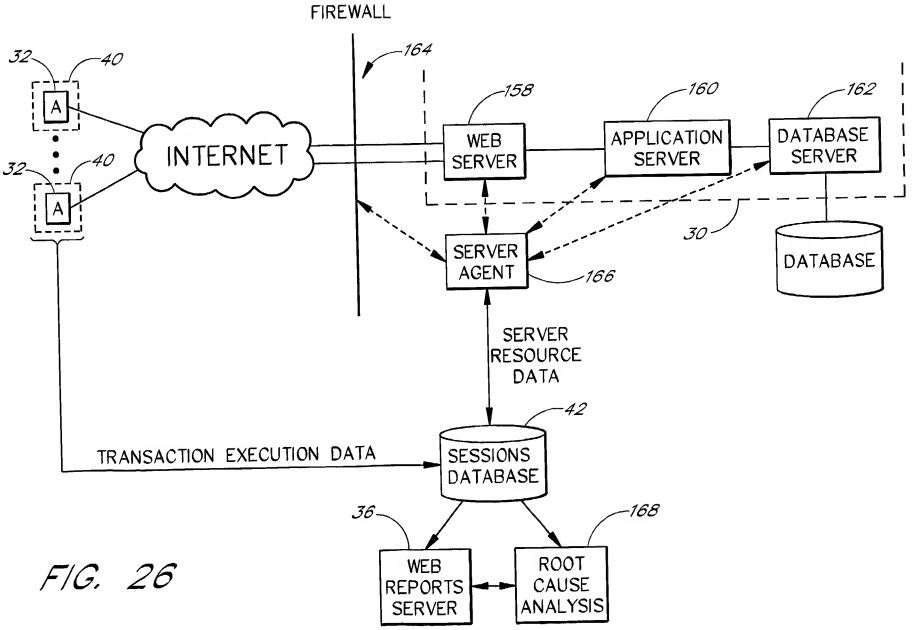

FIG. 26

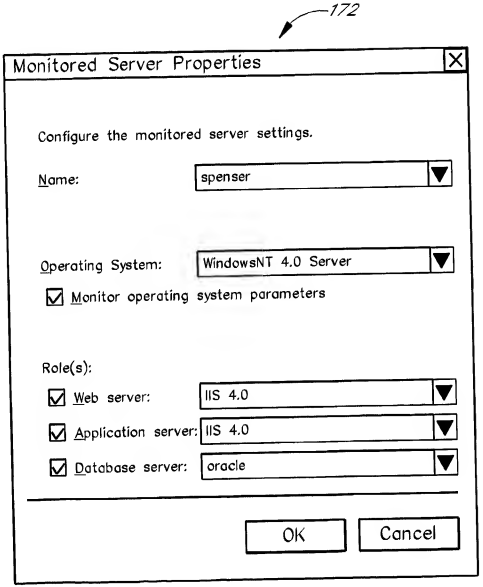
172
Monitored Server Properties
Configure the monitored server settings.
Name:
spenser
Operating System:
WindowsNT 4.0 Server
Monitor operating system parameters
Role(s):
Web server:
IIS 4.0
Application server:
IIS 4.0
Database server:
oracle
OK
Cancel

FIG. 27

PATENT APPLICATION

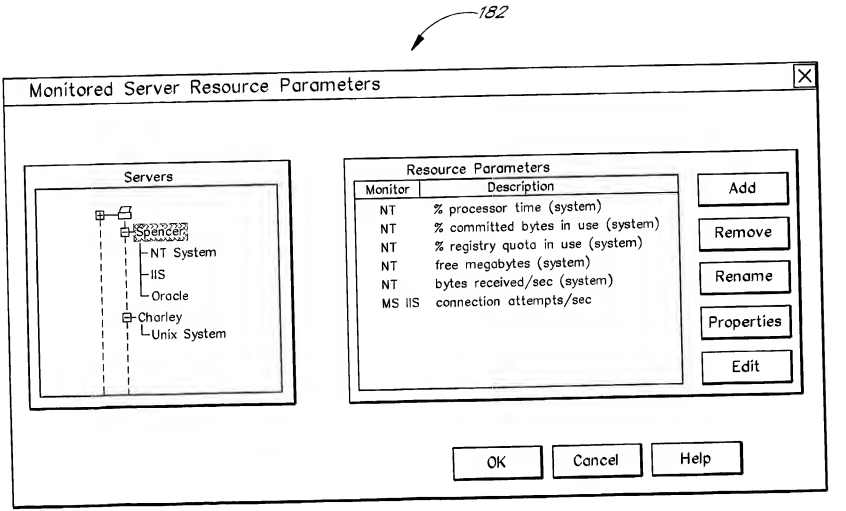

FIG. 28

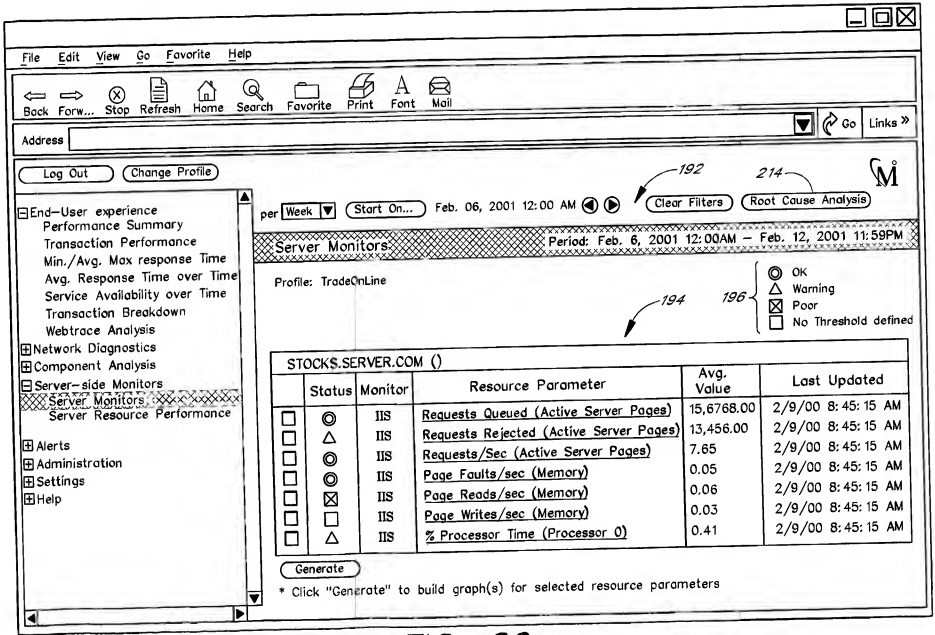
File Edit View Go Favorite Help
Back Forw... Stop Refresh Home Search Favorite Print Font Mail
Address
Go Links »
Log Out
Change Profile
192
214
Clear Filters
Root Cause Analysis
End-User experience
Performance Summary
Transaction Performance
Min./Avg. Max response Time
Avg. Response Time over Time
Service Availability over Time
Transaction Breakdown
Webtrace Analysis
Network Diagnostics
Component Analysis
Server-side Monitors
Server Monitors
Server Resource Performance
Alerts
Administration
Settings
Help
per Week
Start On...
Feb. 06, 2001 12:00 AM
Server Monitors
Period: Feb. 6, 2001 12:00AM – Feb. 12, 2001 11:59PM
Profile: TradeOnLine
194
196
OK
Warning
Poor
No Threshold defined
STOCKS.SERVER.COM ()
Status
Monitor
Resource Parameter
Avg. Value
Last Updated
IIS Requests Queued (Active Server Pages) 15,6768.00 2/9/00 8:45:15 AM
IIS Requests Rejected (Active Server Pages) 13,456.00 2/9/00 8:45:15 AM
IIS Requests/Sec (Active Server Pages) 7.65 2/9/00 8:45:15 AM
IIS Page Faults/sec (Memory) 0.05 2/9/00 8:45:15 AM
IIS Page Reads/sec (Memory) 0.06 2/9/00 8:45:15 AM
IIS Page Writes/sec (Memory) 0.03 2/9/00 8:45:15 AM
IIS % Processor Time (Processor 0) 0.41 2/9/00 8:45:15 AM
Generate
* Click "Generate" to build graph(s) for selected resource parameters

FIG. 29

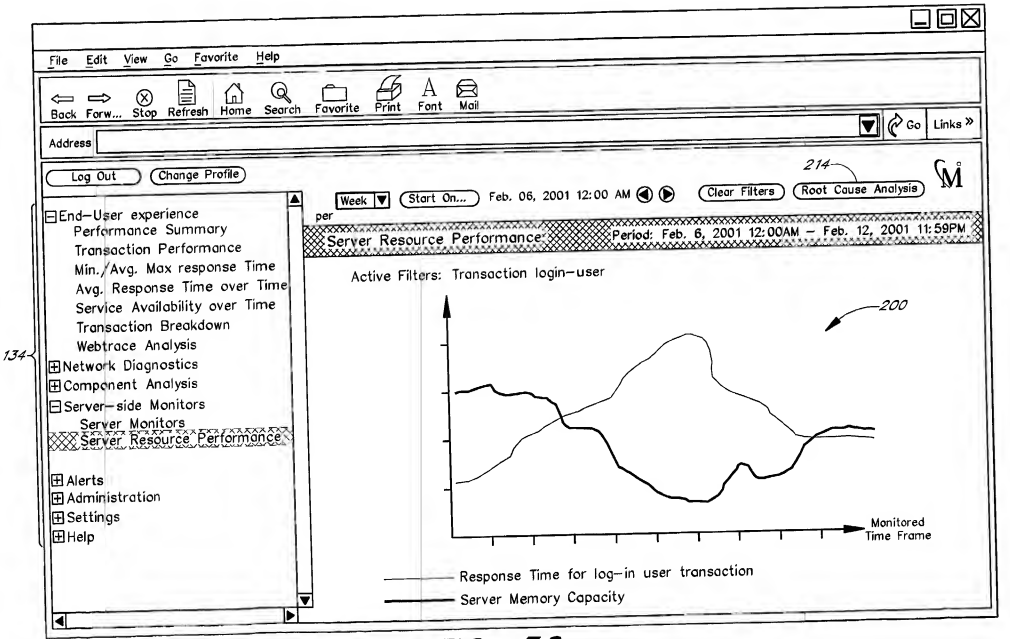
File Edit View Go Favorite Help
Back Forw... Stop Refresh Home Search Favorite Print Font Mail
Address
Go Links »
Log Out
Change Profile
214
Root Cause Analysis
Clear Filters
Week
Start On...
Feb. 06, 2001 12:00 AM
End-User experience
Performance Summary
Transaction Performance
Min./Avg. Max response Time
Avg. Response Time over Time
Service Availability over Time
Transaction Breakdown
Webtrace Analysis
134
Network Diagnostics
Component Analysis
Server-side Monitors
Server Monitors
Server Resource Performance
Alerts
Administration
Settings
Help
Server Resource Performance
Period: Feb. 6, 2001 12:00AM – Feb. 12, 2001 11:59PM
Active Filters: Transaction login-user
200
Monitored Time Frame
Response Time for log-in user transaction
Server Memory Capacity

FIG. 30

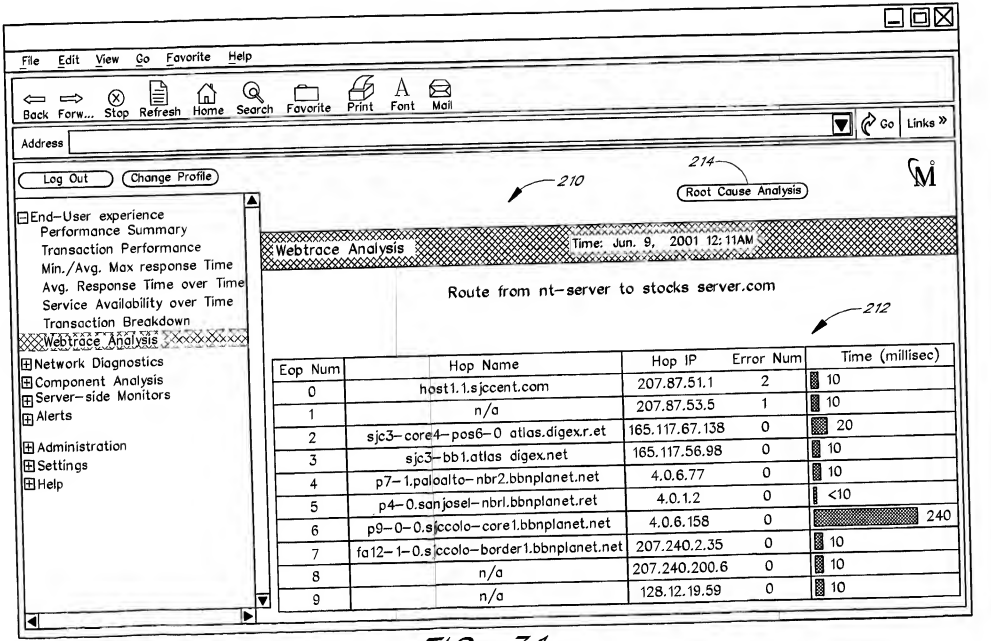
File Edit View Go Favorite Help
Back Forw... Stop Refresh Home Search Favorite Print Font Mail
Address
Go Links »
Log Out
Change Profile
210
214
Root Cause Analysis
End-User experience
Performance Summary
Transaction Performance
Min./Avg. Max response Time
Avg. Response Time over Time
Service Availability over Time
Transaction Breakdown
Webtrace Analysis
Network Diagnostics
Component Analysis
Server-side Monitors
Alerts
Administration
Settings
Help
Webtrace Analysis
Time: Jun. 9, 2001 12:11AM
Route from nt-server to stocks server.com
212
Eop Num
Hop Name
Hop IP
Error Num
Time (millisec)
0 host1.1.sjccent.com 207.87.51.1 2 10
1 n/a 207.87.53.5 1 10
2 sjc3-core4-pos6-0 atlas.digex.r.et 165.117.67.138 0 20
3 sjc3-bb1.atlas digex.net 165.117.56.98 0 10
4 p7-1.paloalto-nbr2.bbnplanet.net 4.0.6.77 0 10
5 p4-0.sanjosel-nbrl.bbnplanet.ret 4.0.1.2 0 <10
6 p9-0-0.sjccolo-core1.bbnplanet.net 4.0.6.158 0 240
7 fa12-1-0.sjccolo-border1.bbnplanet.net 207.240.2.35 0 10
8 n/a 207.240.200.6 0 10
9 n/a 128.12.19.59 0 10

FIG. 31

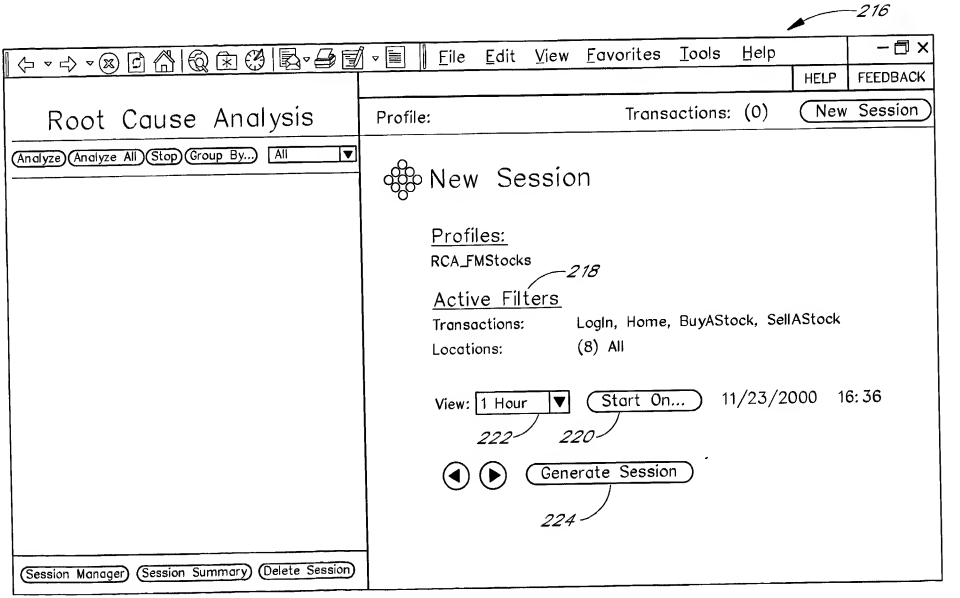
216
File Edit View Favorites Tools Help
HELP FEEDBACK
Root Cause Analysis
Profile:
Transactions: (0)
New Session
Analyze Analyze All Stop Group By... All
New Session
Profiles:
RCA_FMStocks
218
Active Filters
Transactions: LogIn, Home, BuyAStock, SellAStock
Locations: (8) All
View: 1 Hour
Start On...
11/23/2000 16:36
222
220
Generate Session
224
Session Manager
Session Summary
Delete Session

FIG. 32

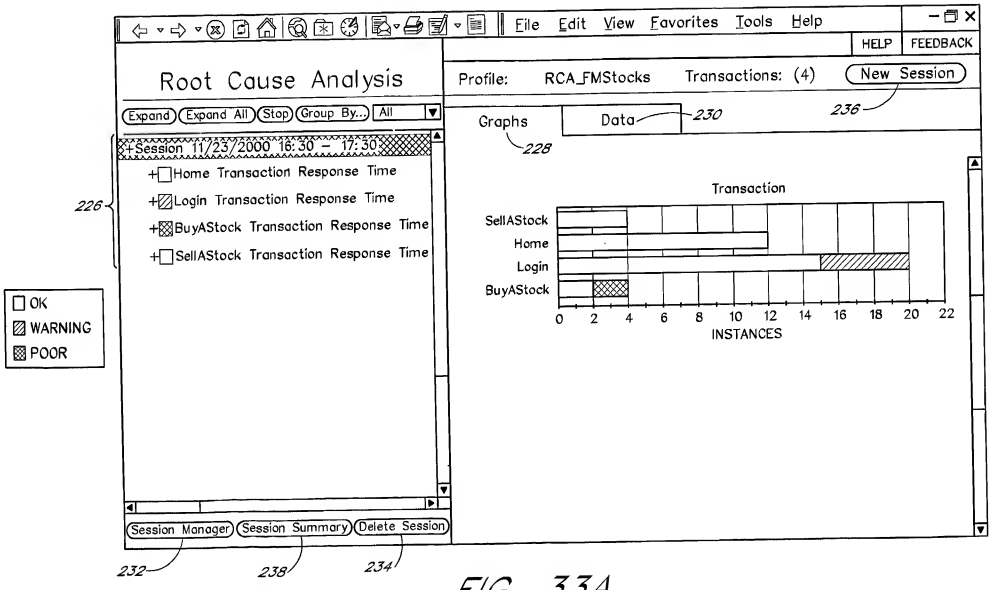
File Edit View Favorites Tools Help
HELP
FEEDBACK
Root Cause Analysis
Profile: RCA_FMStocks
Transactions: (4)
New Session
236
Expand
Expand All
Stop
Group By...
All
Graphs
Data
230
228
+Session 11/23/2000 16:30 - 17:30
+Home Transaction Response Time
+Login Transaction Response Time
+BuyAStock Transaction Response Time
+SellAStock Transaction Response Time
226
Transaction
SellAStock
Home
Login
BuyAStock
0 2 4 6 8 10 12 14 16 18 20 22
INSTANCES
OK
WARNING
POOR
Session Manager
Session Summary
Delete Session
232
238
234

FIG. 33A

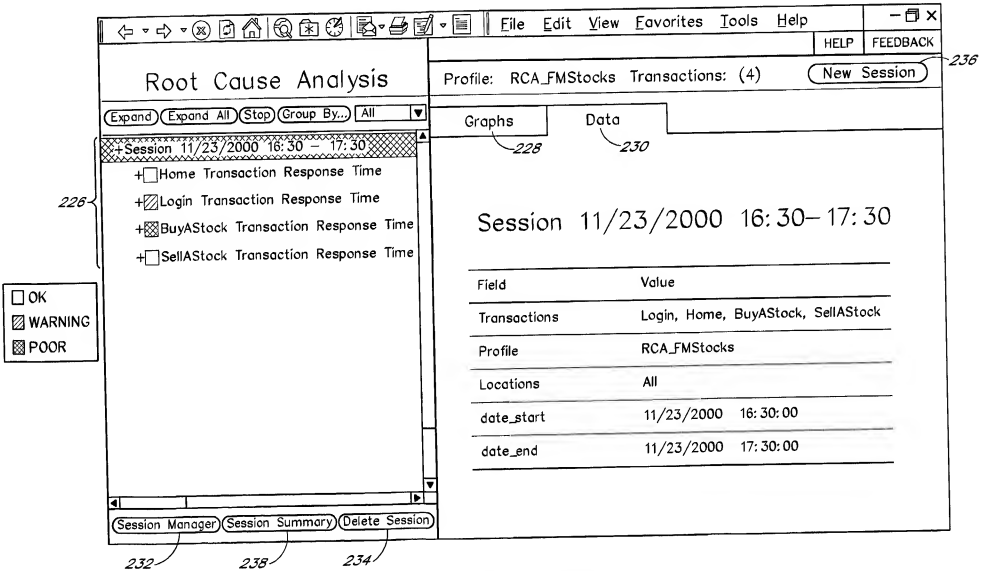
File Edit View Favorites Tools Help
HELP
FEEDBACK
Root Cause Analysis
Profile: RCA_FMStocks Transactions: (4)
New Session
236
Expand
Expand All
Stop
Group By...
All
Graphs
Data
228
230
Session 11/23/2000 16:30 - 17:30
Home Transaction Response Time
Login Transaction Response Time
BuyAStock Transaction Response Time
SellAStock Transaction Response Time
226
OK
WARNING
POOR
Session 11/23/2000 16:30-17:30
Field
Value
Transactions
Login, Home, BuyAStock, SellAStock
Profile
RCA_FMStocks
Locations
All
date_start
11/23/2000 16:30:00
date_end
11/23/2000 17:30:00
Session Manager
Session Summary
Delete Session
232
238
234

FIG. 33B

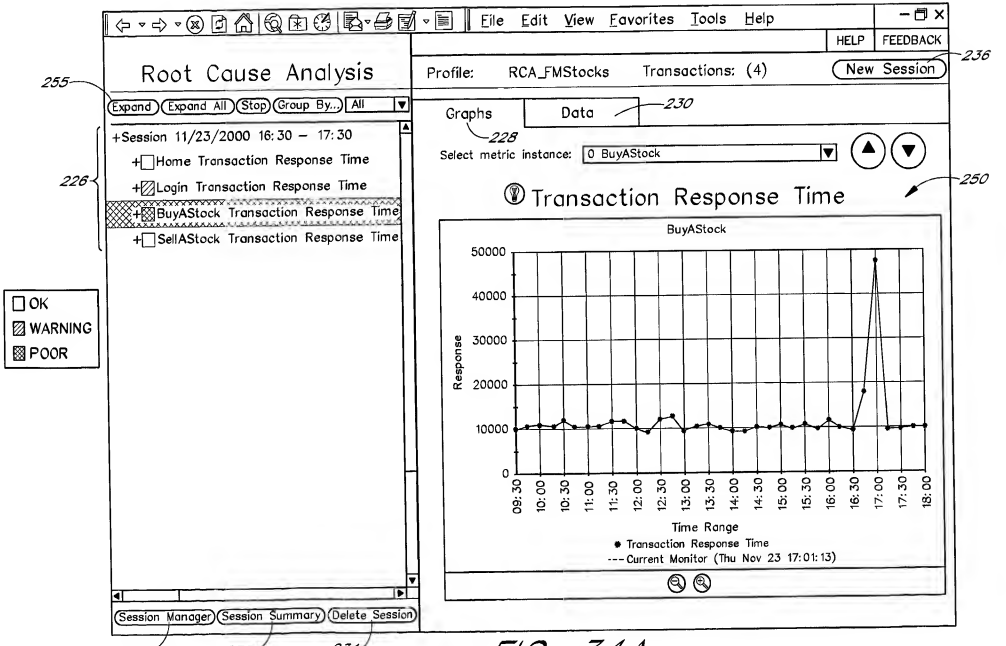
File Edit View Favorites Tools Help
HELP
FEEDBACK
Root Cause Analysis
Profile: RCA_FMStocks
Transactions: (4)
New Session
236
255
Expand
Expand All
Stop
Group By..
All
Graphs
Data
230
228
+Session 11/23/2000 16:30 – 17:30
+Home Transaction Response Time
+Login Transaction Response Time
+BuyAStock Transaction Response Time
+SellAStock Transaction Response Time
226
Select metric instance: 0 BuyAStock
250
Transaction Response Time
BuyAStock
Response
50000
40000
30000
20000
10000
0
09:30
10:00
10:30
11:00
11:30
12:00
12:30
13:00
13:30
14:00
14:30
15:00
15:30
16:00
16:30
17:00
17:30
18:00
Time Range
Transaction Response Time
Current Monitor (Thu Nov 23 17:01:13)
OK
WARNING
POOR
Session Manager
Session Summary
Delete Session
232
238
234

FIG. 34A

TEXTSTART

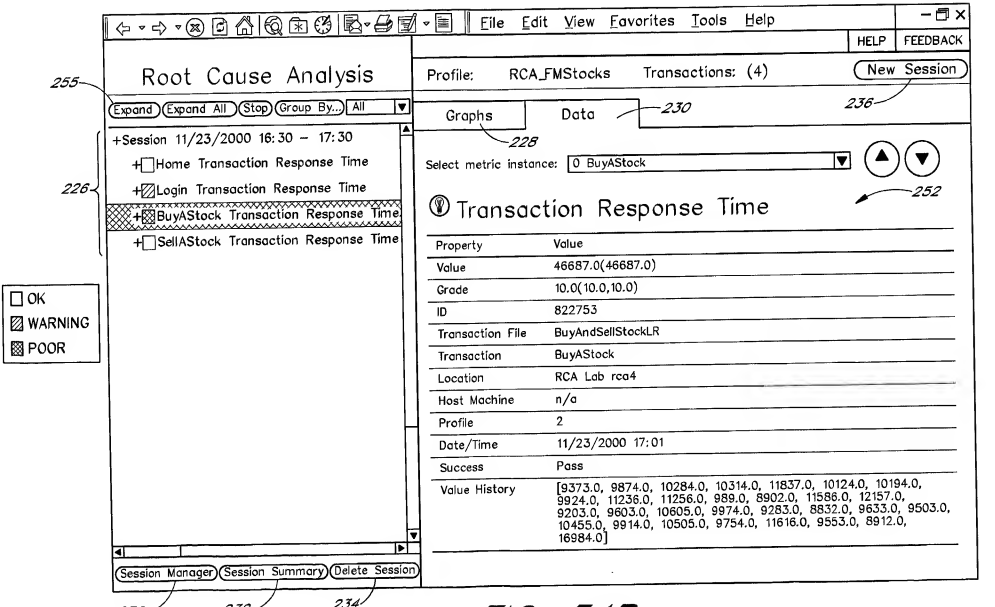

FIG. 34B

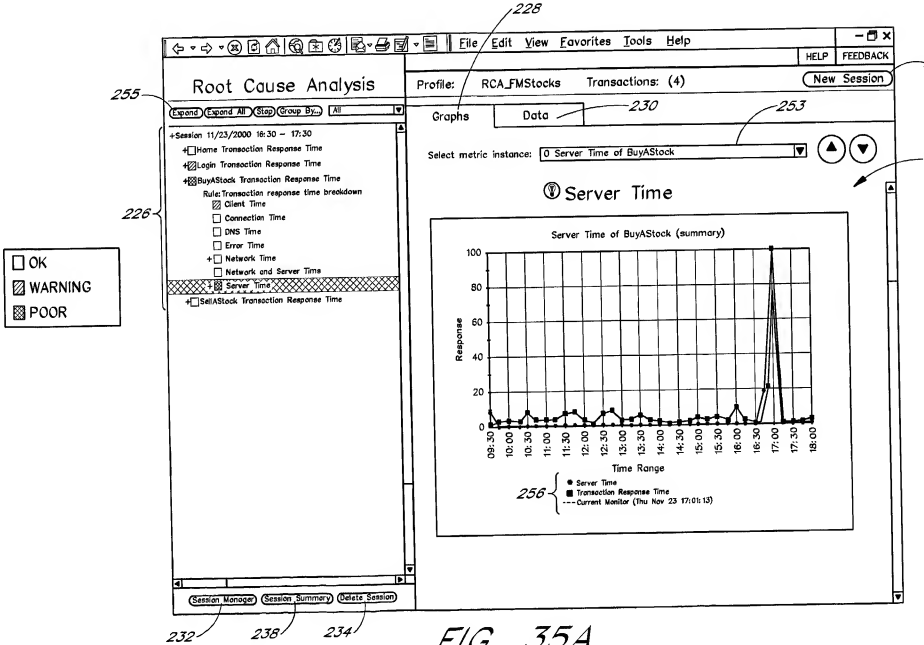
228
File Edit View Favorites Tools Help
HELP FEEDBACK
236
Root Cause Analysis
Profile: RCA_FMStocks Transactions: (4)
New Session
255
Expand Expand All Stop Group By... All
Graphs
Data
230
253
Select metric instance: 0 Server Time of BuyAStock
254
+Session 11/23/2000 16:30 - 17:30
+Home Transaction Response Time
+Login Transaction Response Time
+BuyAStock Transaction Response Time
Rule: Transaction response time breakdown
Client Time
Connection Time
DNS Time
Error Time
+Network Time
Network and Server Time
+Server Time
+SellAStock Transaction Response Time
226
Server Time
Server Time of BuyAStock (summary)
Response
100
80
60
40
20
0
09:30
10:00
10:30
11:00
11:30
12:00
12:30
13:00
13:30
14:00
14:30
15:00
15:30
16:00
16:30
17:00
17:30
18:00
Time Range
256
Server Time
Transaction Response Time
Current Monitor (Thu Nov 23 17:01:13)
OK
WARNING
POOR
Session Manager
Session Summary
Delete Session
232
238
234

FIG. 35A

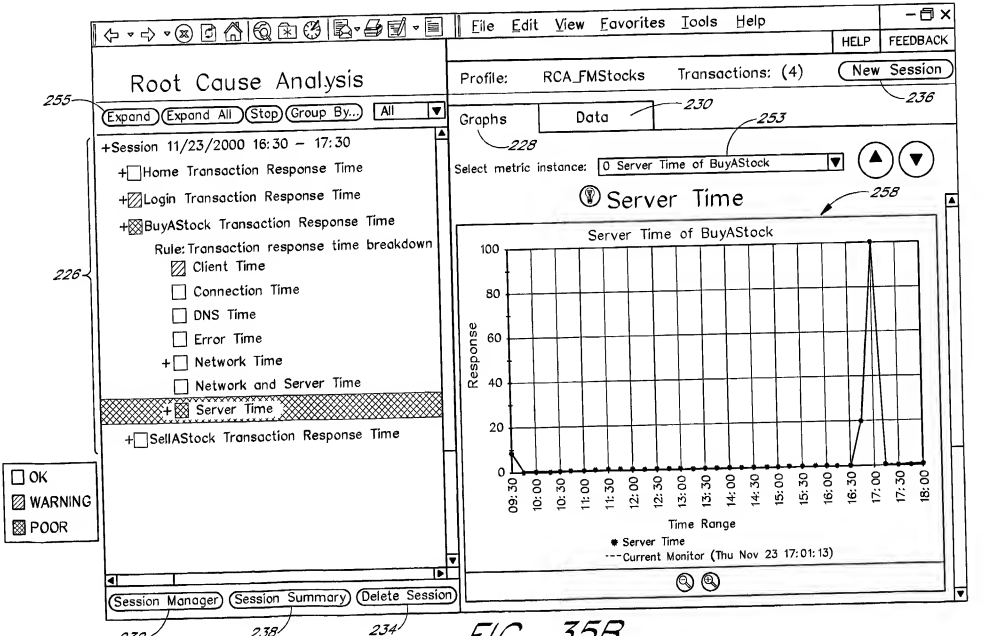
File Edit View Favorites Tools Help
HELP
FEEDBACK
Root Cause Analysis
Profile: RCA_FMStocks
Transactions: (4)
New Session
236
255
Expand
Expand All
Stop
Group By...
All
Graphs
Data
230
253
228
Select metric instance:
0 Server Time of BuyAStock
Server Time
258
+Session 11/23/2000 16:30 - 17:30
+Home Transaction Response Time
+Login Transaction Response Time
+BuyAStock Transaction Response Time
Rule: Transaction response time breakdown
Client Time
Connection Time
DNS Time
Error Time
+Network Time
Network and Server Time
+Server Time
+SellAStock Transaction Response Time
226
Server Time of BuyAStock
Response
100
80
60
40
20
0
09:30
10:00
10:30
11:00
11:30
12:00
12:30
13:00
13:30
14:00
14:30
15:00
15:30
16:00
16:30
17:00
17:30
18:00
Time Range
Server Time
---Current Monitor (Thu Nov 23 17:01:13)
OK
WARNING
POOR
Session Manager
Session Summary
Delete Session
232
238
234

FIG. 35B

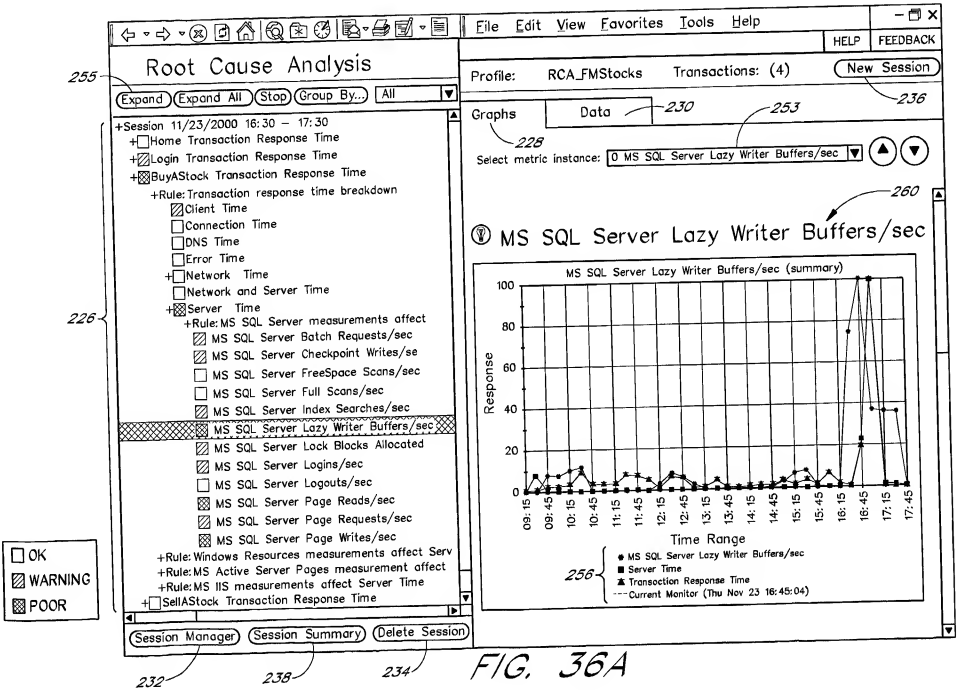
Root Cause Analysis
255
Expand
Expand All
Stop
Group By...
All
+Session 11/23/2000 16:30 – 17:30
+Home Transaction Response Time
+Login Transaction Response Time
+BuyAStock Transaction Response Time
+Rule: Transaction response time breakdown
Client Time
Connection Time
DNS Time
Error Time
+Network Time
Network and Server Time
+Server Time
226
+Rule: MS SQL Server measurements affect
MS SQL Server Batch Requests/sec
MS SQL Server Checkpoint Writes/se
MS SQL Server FreeSpace Scans/sec
MS SQL Server Full Scans/sec
MS SQL Server Index Searches/sec
MS SQL Server Lazy Writer Buffers/sec
MS SQL Server Lock Blocks Allocated
MS SQL Server Logins/sec
MS SQL Server Logouts/sec
MS SQL Server Page Reads/sec
MS SQL Server Page Requests/sec
MS SQL Server Page Writes/sec
+Rule: Windows Resources measurements affect Serv
+Rule: MS Active Server Pages measurement affect
+Rule: MS IIS measurements affect Server Time
+SellAStock Transaction Response Time
OK
WARNING
POOR
Session Manager
Session Summary
Delete Session
232
238
234
File Edit View Favorites Tools Help
HELP
FEEDBACK
Profile: RCA_FMStocks
Transactions: (4)
New Session
236
Graphs
Data
230
253
228
Select metric instance:
0 MS SQL Server Lazy Writer Buffers/sec
260
MS SQL Server Lazy Writer Buffers/sec
MS SQL Server Lazy Writer Buffers/sec (summary)
Response
100
80
60
40
20
0
09:15
09:45
10:15
10:45
11:15
11:45
12:15
12:45
13:15
13:45
14:15
14:45
15:15
15:45
16:15
16:45
17:15
17:45
Time Range
256
MS SQL Server Lazy Writer Buffers/sec
Server Time
Transaction Response Time
Current Monitor (Thu Nov 23 16:45:04)

FIG. 36A

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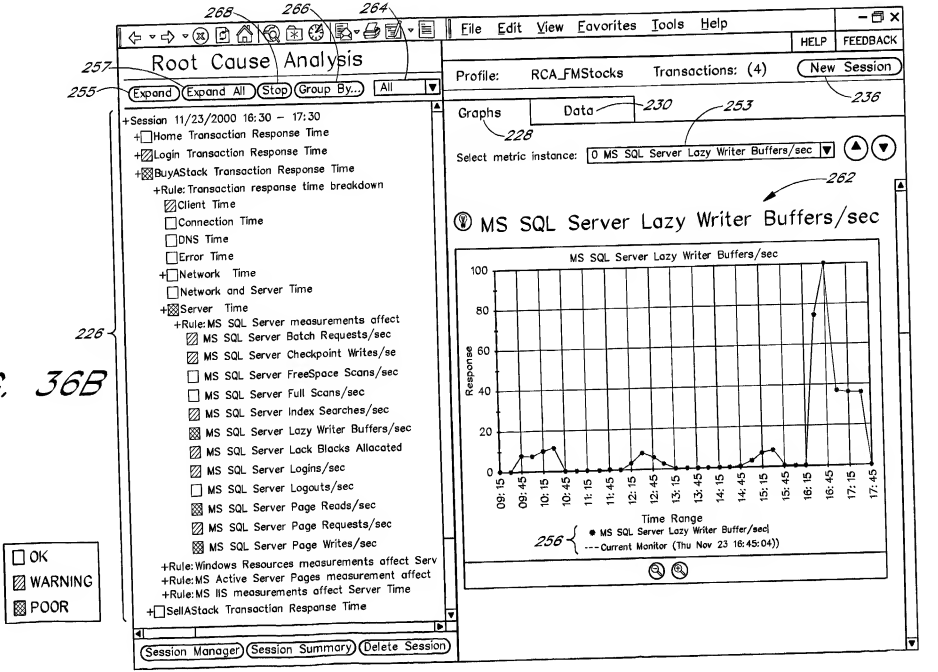

FIG. 36B

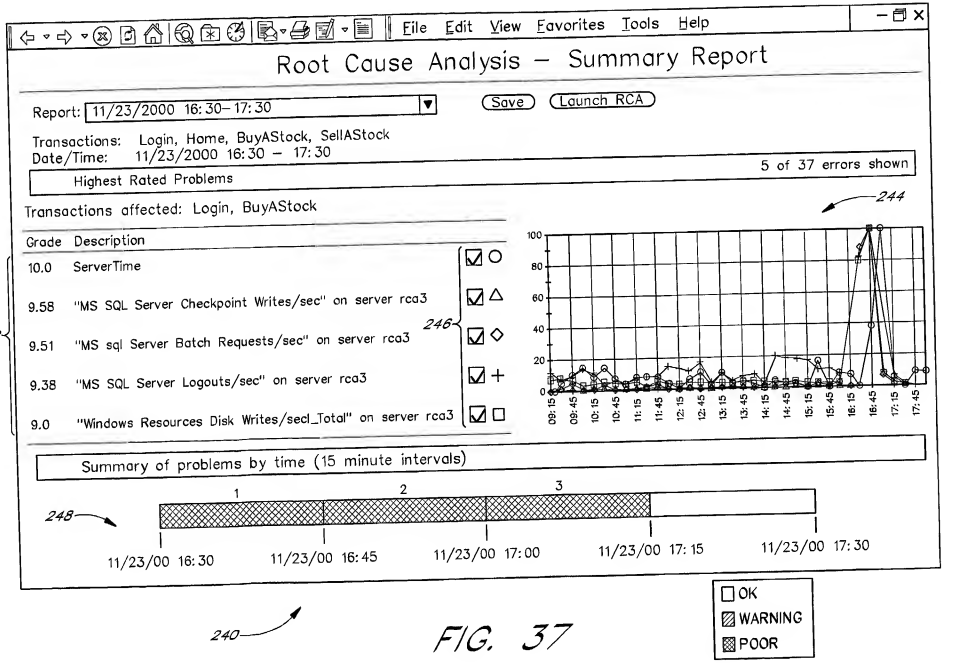
File Edit View Favorites Tools Help
Root Cause Analysis – Summary Report
Report: 11/23/2000 16:30–17:30
Save
Launch RCA
Transactions: Login, Home, BuyAStock, SellAStock
Date/Time: 11/23/2000 16:30 – 17:30
Highest Rated Problems
5 of 37 errors shown
Transactions affected: Login, BuyAStock
Grade Description
10.0 ServerTime
9.58 "MS SQL Server Checkpoint Writes/sec" on server rca3
9.51 "MS sql Server Batch Requests/sec" on server rca3
9.38 "MS SQL Server Logouts/sec" on server rca3
9.0 "Windows Resources Disk Writes/secl_Total" on server rca3
242
244
246
100
80
60
40
20
0
09:15
09:45
10:15
10:45
11:15
11:45
12:15
12:45
13:15
13:45
14:15
14:45
15:15
15:45
16:15
16:45
17:15
17:45
Summary of problems by time (15 minute intervals)
248
1
2
3
11/23/00 16:30
11/23/00 16:45
11/23/00 17:00
11/23/00 17:15
11/23/00 17:30
OK
WARNING
POOR
240

FIG. 37

TOSTOT 96090004

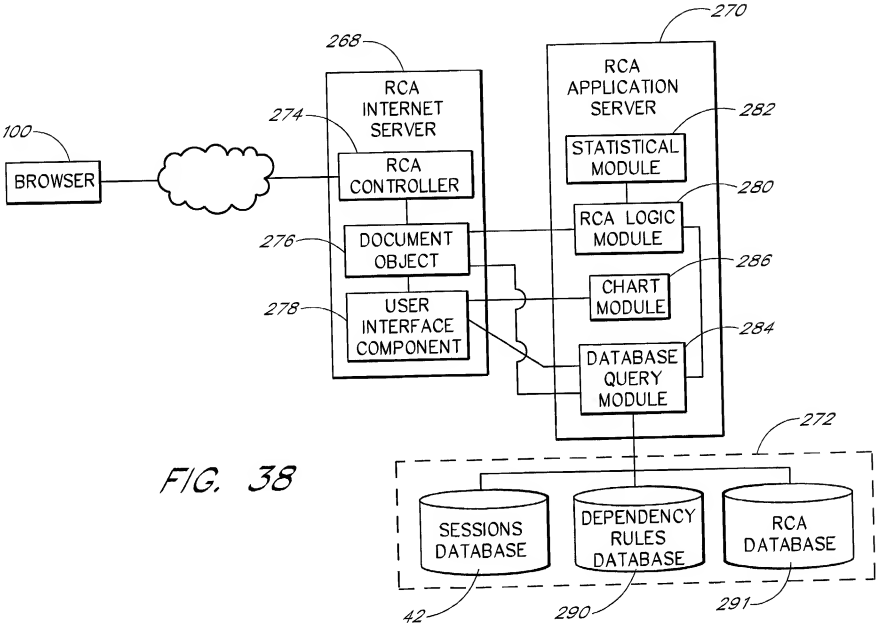

FIG. 38

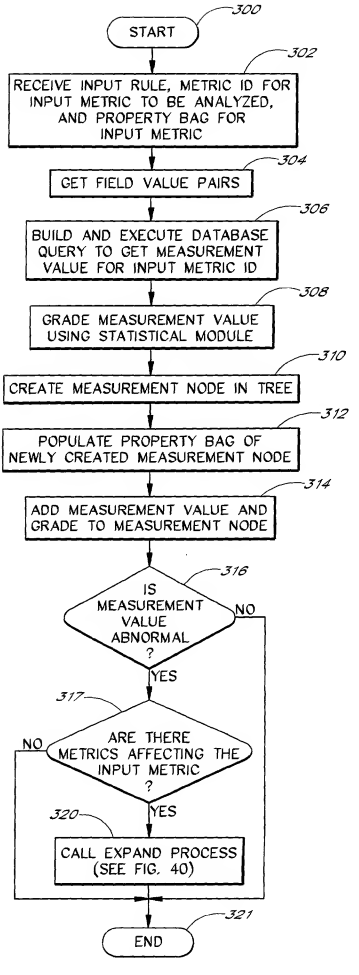
300
START
302
RECEIVE INPUT RULE, METRIC ID FOR INPUT METRIC TO BE ANALYZED, AND PROPERTY BAG FOR INPUT METRIC
304
GET FIELD VALUE PAIRS
306
BUILD AND EXECUTE DATABASE QUERY TO GET MEASUREMENT VALUE FOR INPUT METRIC ID
308
GRADE MEASUREMENT VALUE USING STATISTICAL MODULE
310
CREATE MEASUREMENT NODE IN TREE
312
POPULATE PROPERTY BAG OF NEWLY CREATED MEASUREMENT NODE
314
ADD MEASUREMENT VALUE AND GRADE TO MEASUREMENT NODE
316
IS MEASUREMENT VALUE ABNORMAL ?
NO
YES
317
ARE THERE METRICS AFFECTING THE INPUT METRIC ?
NO
YES
320
CALL EXPAND PROCESS (SEE FIG. 40)
321
END

FIG. 39

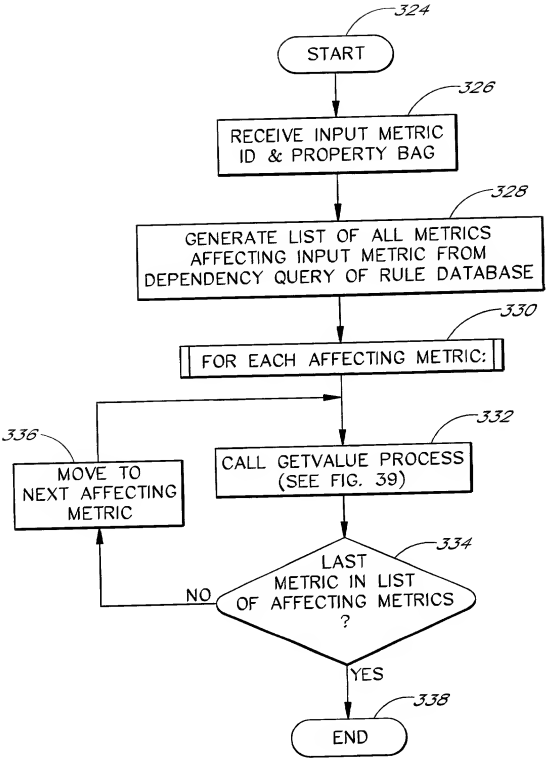
324
START
326
RECEIVE INPUT METRIC ID & PROPERTY BAG
328
GENERATE LIST OF ALL METRICS AFFECTING INPUT METRIC FROM DEPENDENCY QUERY OF RULE DATABASE
330
FOR EACH AFFECTING METRIC:
332
CALL GETVALUE PROCESS (SEE FIG. 39)
334
LAST METRIC IN LIST OF AFFECTING METRICS ?
NO
YES
336
MOVE TO NEXT AFFECTING METRIC
338
END

FIG. 40

PATENT SPECIMEN

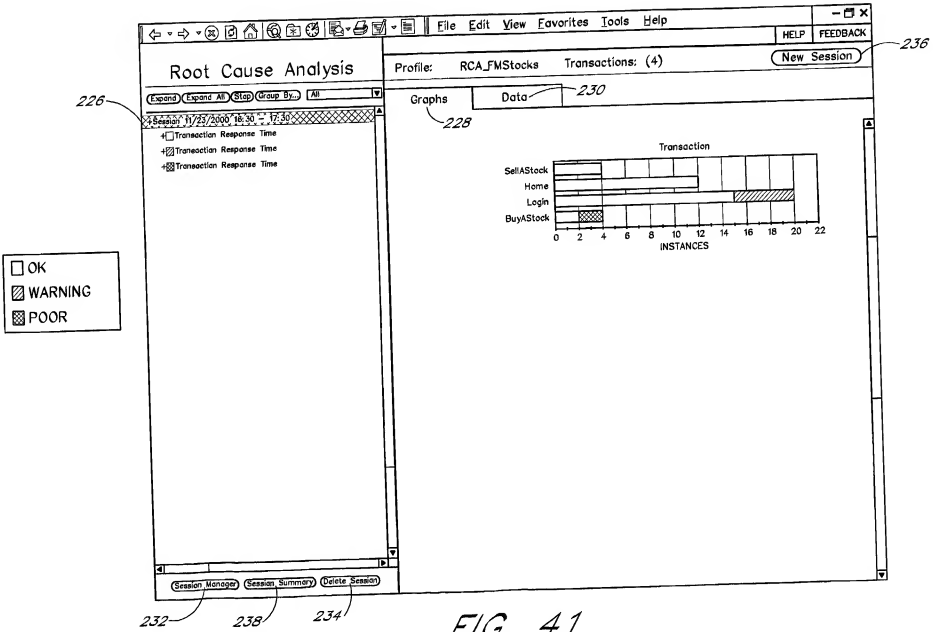

FIG. 41